PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file refe C03120	rence	FOR FURTHER ACTION			national Search Report applicable, item 5 below.
International application No. PCT/AU03/01163		International filing date (5 September 2003	day/month/year)	(Earliest) Priori 6 September	ty Date (day/month/year) 2002
Applicant RESMED LIMIT	ED et al				
This international search repo Article 18. A copy is being to This international search repo	ansmitted to the	International Bureau.	Searching Authority and	is transmitted to t	the applicant according to
		of each prior art documen	nt cited in this report.		
which it was fil-	ed, unless otherw	rise indicated under this ite	em.	·	d application in the language in
b. With regard to a carried out on the	(b)). ny nucleotide a se basis of the se	nd/or amino acid sequen	ce disclosed in the interr		on, the international search was
<u></u>		rnational application in co			
		this Authority in written for this Authority in computer			à.
the staten		equently furnished written		ot go beyond the	disclosure in the international
			iter readable form is ide	ntical to the writte	en sequence listing has been
2. Certain claims	were found uns	earchable (See Box I).			
3. X Unity of invent	ion is lacking (S	ee Box II).			ı
4. With regard to the tit.	e, X	the text is approved as su	bmitted by the applicant		
		the text has been established	hed by this Authority to	read as follows:	
5. With regard to the ab	stract,	the text is approved as su	bmitted by the applicant		
	X	the text has been establis The applicant may, withis submit comments to this	n one month from the da	8.2(b), by this Au te of mailing of t	nthority as it appears in Box III. his international search report,
6. The figure of the dra	wings to be publ	ished with the abstract is F	Figure No. 6c		
	X	as suggested by the appli	cant.		None of the figures
		because the applicant fail	led to suggest a figure		
		because this figure better	characterizes the invent	ion	

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Box I	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This intereasons:	ernational search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1.	Claims Nos :
	because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos :
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box II	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
See	extra sheet
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	X No required additional search fees were timely paid by the applicant. Consequently, this international search report
	is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-36, 65-70
Remark	on Protest
	No protest accompanied the payment of additional search fees.

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Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A respiratory mask assembly for delivering breathable gas to a patient includes a frame and a cushion (14). The cushion (14) has a non-face contacting portion structured to be connected to the frame, a face-contacting portion (26) structured to engage the patient's face, and an intermediate portion (28) that interconnects the non-face contacting portion and the face-contacting portion (26). The intermediate portion (28) includes a gusset portion that applies a first component of force to the patient's face through the face-contacting portion (26). A spring structure is coupled with the facecontacting portion (26) of the cushion (14). The spring structure applies a second component of force to the patient's face through the face-contacting portion (26). The first and second components of force applied by the gusset portion and spring structure, respectively, determine a contact force of the cushion (14) applied to the patient's face through the face-contacting portion (26). The intermediate portion (28) may also include an elastic cuff portion. Further, in the case of an oral mask, the sealing section may include a portion that is designed to promote a better seal in the chin region of the mask.

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A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: A61M 16/06, A62B 18/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
DWPI and keywords (IPC A61M A62B A61H, breath respir inspir inhal seal cushion pad gusset bellow fold mask interface force pressure distribut cuff and like terms)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	WO 01/62326 A1 (MAP MEDIZINTECHNIK FUR ARZT UND PATIENT GMBH & CO KG) 30 August 2001	
X	Figure 6 and corresponding description	1-36
Y	Figure 6 and corresponding description	1-36
Y	WO 01/97893 A1 (RESMED LTD et al) 27 December 2001	1-36
x	US 5349949 A (SCHEGERIN) 27 September 1994 Column 2 line 62 - column 4 line 52	1-36
X	EP 303090 B1 (SGE SOCIETA GENERALE ELASTOMERI SPA) 22 April 1992 drawings	1-36

X	Further documents are l	isted in the continuation of	Box C X	See patent family annex

- Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- 'T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of mailing of the international search report
4 NOV 2003
Authorized officer
JAGDISH BOKIL Telephone No: (02) 6283 2371

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C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2706983 A (MATHESON et al) 26 April 1955	1-36
х	US 5592938 A (SCARBERRY et al) 14 January 1997 Figure 5; Column 7 lines 39-43	65-70
x	US 4971051 A (TOFFOLON) 20 November 1990 Figure 2	65-70
	•	
		Total Park

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Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: II

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that *prima facie*, there appear to be at least TWO inventions as follows:

- 1. Claims 1, 26, 27, 30, 32, 34, 35, 65, 66 and the dependent claims are directed to a cushion, mask assembly or a method for improving the comfort of a mask assembly having means (as defined in each independent claim) to redistribute the components of the contact force of a cushion on the patient's face. It is considered that means to redistribute the components of the contact force of a cushion on the patient's face comprises a first "special technical feature".
- 2. Claims 37, 57 and the dependent claims are directed to a respiratory mask or a cushion for a respiratory mask having a cushion sealing portion including a nasal seal section, side seal sections and a contoured chin seal section. It is considered that the nasal seal, side seal and contoured chin seal sections of the cushion sealing portion comprises a second "special technical feature".

Since the abovementioned groups of claims do not share any of the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept, a priori.

Since the claim groups are characterised by inventive concepts that cannot be effectively searched as part of one search, they cannot be covered by a single search fee.

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Information on patent family members

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Paten	t Document Cited in Search Report			Pate	ent Family Member		
wo	0162326	AU	34250/00	EP	1259279		
WO 0197893	0197893	AU	67133/01	EP	1292351	US	2002029780
		US	2003089372				
US	5349949	DE	4233448	FR	2682043	GB	2260084
EP	0303090	CH	671702				
US	2706983	NONE					
US	5592938	US	5222478	US	5343878		
US	4971051	NONE				***************************************	